



PATENT ABSTRACTS OF JAPAN

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MURAKAWA HIDEO(54) **OXYGEN DETECTING AGENT**

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(57) Abstract:

PURPOSE: To obtain an oxygen detecting agent capable of judging the presence of oxygen by the change of hue, by containing a dye and aminopolycarboxylate as essential components in a state reducible by light.

CONSTITUTION: A dye to be used is represented by formula [wherein $-Y^+$ is $-O^+$, $-S^+$ or $\equiv N^+-Z$ (wherein Z is H, an alkyl group or aryl group), R_1VR_6 are H, an alkyl group, an alkoxy group or a nitro group, R_7VR_{10} are H or an alkyl group and X is halogen). The amount of the dye is pref. about 1W1/1,000mol.% of that of aminopolycarboxylate. A solvent is pref. water from a aspect of the easiness of handling. As a detecting agent, a composition wherein both components are adsorbed by and infiltrated in a carrier such as a colorless or almost colorless gel like substance, for example, a highly water-absorbable resin, agar or gelatin is pref. This detecting agent requires no reducing agent as a material and can be prepared in an extremely easy manner.

